WHAT IS CLAIMED IS:

- 2 1. A method for synthesizing chiral bicyclic thiazolidine hydantoin,
- 3 the method taking L-(+)-Cysteine, an aldehyde, an isocyanate as reactants
- 4 with additive solid molecular sieves to synthesize chiral bicyclic thiazolidine
- 5 hydantoin and performing in accordance with the following chemical
- 6 equation:

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- wherein R¹ and R² are selected from the group comprising a hydrogen,
- 9 phenyl, benzyl, alkyl group containing 1 to 5 carbon atoms, aryl alkyl group
- in which the alkyl containing 1 to 5 carbon atoms.
- 2. The method as claimed in claim 1, wherein the isocyanate is
- 12 benzylisocyanate.
- 3. The method as claimed in claim 2, the method comprising
- 14 following operational acts of:
- mixing L-(+)-Cysteine, aldehyde, an organic alkali, an organic
- alcohol solvent to carry out a first cycloaddition to compose a solution and to
- 17 generate white intermediate, wherein the organic alcohol contains 1 to 5
- 18 carbon atoms;
- extracting the alcohol solvent;
- adding the solid molecular sieves, benzylisocyanate and a ketone
- solvent to mix well in the solution to carry out a second cycloaddition;

- extracting the ketone solvent; 1 adding ether solvent and an inorganic acid to mix well in the solution; 2 placing the solution to separate the solution into an upper ether layer 3 and a lower aqueous layer with deposited solid molecular sieves; 4 removing the ether solvent; 5 6 adding an alcohol solvent to enforce crystallization of bicyclic thiazolidine hydantoin in the form of a white solid, wherein the alcohol 7 contains 1 to 4 carbons; 8 extracting the alcohol solvent; and 9 drying the crystallization to obtain a final bicyclic thiazolidine 10 hydantoin. 11 4. The method as claimed in claim 3, wherein the organic alcohol 12 solvent is an organic alcohol-water solvent in a ratio of water: organic 13 alcohol=1:1. 14 5. The method as claimed in claim 3, wherein the ketone solvent
- 15 contains ketone having 2-5 carbons. 16

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- 6. The method as claimed in claim3, wherein the organic alkali is sodium acetate.
- 7. The method as claimed in claim 3, wherein the organic alkali is 19 potassium acetate. 20
- 8. The method as claimed in claim 3, wherein the solid molecular 21 sieves are in the form of particles having 3Å -5Å bore diameters. 22
- 9. The method as claimed in claim 3, wherein the ether solvent is 23 diethyl ether. 24

i	10. The method as claimed in claim 3, wherein the reaction
2	temperature range is within 25 to 50°C.
3	11. The method as claimed in claim 2, the method comprising the
4	following operational acts of:
5	mixing L-(+)-Cysteine, an aldehyde, an organic alkali, an organic
6	alcohol solvent to carry out a first cycloaddition to compose a solution and to
7	generate white intermediate, wherein the organic alcohol contains 1 to 5
8	carbons;
9	extracting the alcohol solvent;
10	adding the solid molecular sieves, benzylisocyanate and a ketone
11	solvent to mix well in the solution to carry out a second cycloaddition;
12	extracting the ketone solvent;
13	adding ester solvent and an inorganic acid to mix well in the solution
14	placing the solution to separate the solution into an upper ester layer
15	and a lower aqueous with deposited solid molecular sieves;
16	removing the ester solvent;
17	adding an alcohol solvent to enforce crystallization of bicyclic
18	thiazolidine hydantoin in the form of a white solid, wherein the alcohol
19	contains 1 to 4 carbons;
20	extracting the alcohol solvent; and
21	drying the crystallization to obtain a final bicyclic thiazolidine
22	hydantoin.
23	12. The method as claimed in claim 11, wherein the organic
24	alcohol solvent is an organic alcohol-water solvent in a ratio of water:

- organic alcohol=1:1.
- 2 13. The method as claimed in claim 11, wherein the ketone solvent
- 3 contains ketone having 2-5 carbons.
- 4 14. The method as claimed in claim 11, wherein the organic alkali
- 5 is sodium acetate.
- 6 15. The method as claimed in claim 11, wherein the organic alkali
- 7 is potassium acetate.
- 8 16. The method as claimed in claim 11, wherein the solid
- 9 molecular sieves are in the form of particles having 3Å -5Å bore diameters.
- 17. The method as claimed in claim 11, wherein the ester solvent
- is made of ester selected from the group consisting of methyl formate, ethyl
- formate, methyl acetate, ethyl acetate, and propyl acetate.
- 18. The method as claimed in claim 11, wherein reaction
- temperature range is within 25 to 50°C.